

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

5. LEASE DESIGNATION AND SERIAL NO.

UT ML-48232**APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

1a TYPE OF WORK

DRILL**DEEPEN****PLUG BACK**

7. UNIT AGREEMENT NAME

B TYPE OF WELL

Oil



Gas



OTHER

Single



Multiple



8. FARM OR LEASE NAME

2. Name of Operator

Marathon Oil Company

9. WELL NO.

SITLA #13-22

3. Address of Operator

1501 Stampede Avenue, Cody, WY 82414

10. FIELD OR LEASE NAME

4. Location of Well (Report location clearly and in accordance with any State requirement)

At surface

792' FWL, 1,672' FSL**NW/SW****4372424 N
508030 E**11. Sec., T., R., M., OR BLK
AND SURVEY OR AREA**Sec. 22, T15S, R9E**

At proposed prod. Zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

12. COUNTY OR PARISH 13. STATE

Carbon Utah15. Distance from proposed location to nearest
Property or lease line ft.**792'**

16. NO. OF ACRES IN LEASE

88017. NO. OF ACRES ASSIGNED
TO THIS WELL**160**

(Also to nearest drig. Unit line, if any)

18. DISTANCE FROM PROPOSED LOCATION *
TO NEAREST WELL, DRILLING COMPLETED.

19. PROPOSED DEPTH

20. ROTARY OR CABLE TOOLS

OR APPLIED FOR, ON THIS LEASE, FT.

2,237'**2,882'****Rotary**

21. ELEVATION (SHOW WHETHER DF. RT, GR, etc.)

6,088' GL

22. APPROX. DATE WORK WILL START

April 15, 2000

23

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
11"	8-5/8"	24	300	To Surface
7-7/8"	5-1/2"	17	T.D.	1,511'

Operator requests permission to drill the subject well.**Please see the attached 10 Point and 13 Point Surface Use Plane.****If you require additional information please contact:**

William Ryan
350 S., 800 E.
Vernal, Utah
435-789-0968

RECEIVED**FEB 07 2000**

DIVISION OF
OIL, GAS AND MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposed in to deepen or plug back, give data on proposed productive zone and proposed new productive zone. If proposal is to drill or deepen directional, give pertinent data on subsurface location and measure and true vertical depths. Give blowout preventer program, if any.

24

SIGNATURE

William Ryan

TITLE

Agent

DATE

Jan 15, 2000

(This space for Federal or State Office Use)

PERMIT NO.

43-007-30654

APPROVAL DATE

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

BRADLEY G. HILL
RECLAMATION SPECIALIST III

DATE

4/20/00***See Instructions on Reverse Side**

Title 18 U. S. C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

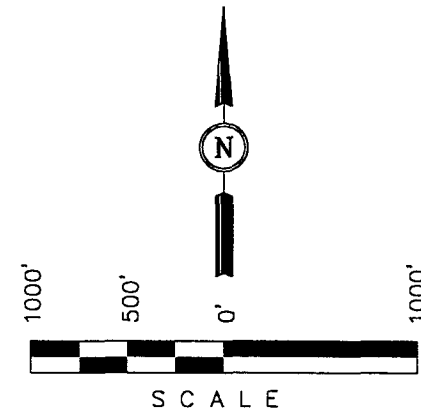
T15S, R9E, S.L.B.&M.

MARATHON OIL CO.

Well location, SITLA #13-22, located as shown in the NW 1/4 SW 1/4 of Section 22, T15S, R9E, S.L.B.&M. Carbon County, Utah.

BASIS OF ELEVATION

SPOT ELEVATION AT THE SOUTHWEST CORNER OF SECTION 22, T15S, R9E, S.L.B.&M. TAKEN FROM THE POISON SPRING BENCH QUADRANGLE, UTAH, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 6137 FEET.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Robert L. Hay
REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 8-31-99	DATE DRAWN: 9-8-99
PARTY D.K. L.J. C.B.T.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE MARATHON OIL CO.	

S89°48'W - 40.37 (G.L.O.)

N89°24'W - 40.36 (G.L.O.)

N00°27'E - 40.46 (G.L.O.)

N00°20'E - 40.14 (G.L.O.)

N00°27'E - 40.33 (G.L.O.)

N00°06'E - G.L.O. (Basis of Bearings)

1940 Brass Cap
0.5' High, Pile
of Stones

S89°56'23"W 2627.69' (Meas.)

S89°57'W - 40.72 (G.L.O.)

1940 Brass Cap
0.2' High, Pile
of Stones, Tire

SITLA #13-22

Elev. Ungraded Ground = 6088'

792'

1672'

LEGEND:

└─ = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

Latitude = 39°30'12"
Longitude = 110°54'22"



RECEIVED

FEB 07 2000

DIVISION OF
OIL, GAS AND MINING

Office (435) 789-0968
Cellular (435) 828-0968

350 S. 800 E.
Vernal, UT 84078

January 15, 2000

Re: Well SITLA #13-22
NW/SW, Sec. 22, T15S, R9E
Lease No. ML-48232

Utah Division of Oil Gas and Mining
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, UT 84114-5801

**Applicable to
Cause No. 243-1.
Op. Notified.
JC*

Dear Sirs:

Marathon Oil Company (Marathon) respectfully requests a spacing exception for the subject well. The well was originally requested for the center of the NW $\frac{1}{4}$ of the SW $\frac{1}{4}$ of Sec. 22, T15S, R9E. The location was moved due to topographic considerations, erosion potential, major and minor drainage's, access conditions and deer winter range. Please see the attached map for details.

The well is located 1,672' FSL, 792' FWL in Sec. 22, T15S, R9E.

A 460' radius around the proposed location is within the lease ML-48232. Please see the attached plat for details.

If you have additional questions please feel free to contact me at any time.:

William (Bill) Ryan
Rocky Mountain Consulting
Agent

RECEIVED

FEB 07 2000

DIVISION OF
OIL, GAS AND MINING

SELF-CERTIFICATION STATEMENT

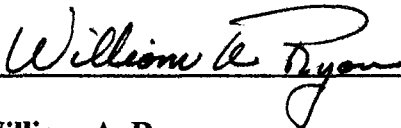
The following self-certification statement is provided per Federal and State of Utah requirements dated June 15, 1988.

Please be advised that Marathon Oil Company is considered to be the operator of the following well.

**SITLA #13-22
NW 1/4, SW 1/4, Section 22, T. 15 S., R. 9 E.
Lease ML-48232
Carbon County, Utah**

Marathon Oil Company is responsible under the terms and conditions of the lease for the operations conducted upon the lease lands.

State of Utah Blanket O&G Bond 5217029 and SITLA Bond 5922542 provide state wide bond coverage on State of Utah lands.



**William A. Ryan
Agent
Rocky Mountain Consulting
350 S. 800 E.
Vernal UT 84078
435-789-0968 Office
435-828-0968 Cell
435-789-0970 Fax**

MARATHON OIL CO.
13 POINT SURFACE USE PLAN
FOR WELL
MARATHON OIL COMPANY
SITLA 13-22
LOCATED IN
NW 1/4, SW 1/4
SECTION 22, T. 15 S., R. 9 E., S.L.B.&M.
CARBON COUNTY, UTAH
LEASE NUMBER: ML-48232
SURFACE OWNERSHIP:
STATE OF UTAH
SCHOOL AND INSTATUTIONAL TRUST LANDS ADMINISTRATION

1. Existing Roads

To reach the **Marathon Oil Co. SITLA 13-22, in Section 22, T15S, R15E**, from Price, Utah:

Starting in Price, Utah proceed south on State Highway 10. Proceed 7.8 miles and turn right (west) on County Road 122. Proceed 2.8 miles, turn right (north) on an existing paved road. Proceed 1.4 miles. The proposed access will start at this point.

All existing roads to this point are State or County Class D roads.

Upgrading and new construction will start at this point.

Please see the attached map B for additional details.

2. Planned access road

The proposed location will require approximately **.1 miles +/- (528 feet) of new road construction.**

Approximately .1 miles +/- (528 feet) of existing two track will have to be upgraded.

The road will be upgraded and built to the following standards:

A) Approximate length	1,056 Ft.
B) Right of Way width	30 Ft.
C) Running surface	18 Ft.
D) Surfacing material	Native soil & crushed gravel

E) Maximum grade	5%
F) Fence crossing	None
G) Culvert	None
H) Turnouts	None
I) Major cuts and fills	None
J) Road flagged	Yes
K) Access road surface ownership	

State of Utah, SITLA

L) All new construction on lease	Yes
M) Pipe line crossing	None
O) Stream crossings	None

Please see the attached location Map B for additional details.

A right of way will not be required for the proposed location.

3. Location of existing wells

The following wells are located within a one mile radius of the location site.

A) Producing well	Four
	Sec. 21 & 28, T15S, R9E
B) Water well	None
C) Abandoned well	None
D) Temp. abandoned well	None
E) Disposal well	One
	Sec. 28, T15S, R9E
F) Drilling/Permitted well	Five
	Sec. 15, 16, 22 & 27
	T15S, R9E
G) Shut in well	Three
	General American 1-15
	Sec. 15, T15S, R9E
	Sun State 1-16
	Sec. 16, T15S, R9E
	SITLA 22-27
	Sec. 27, T15S, R9E
H) Injection well	None
I) Monitoring or observation well	None

Please see the attached map for additional details.

4. Location of tank batteries, production facilities, and production gathering service lines.

All production facilities are to be contained within the proposed location site. Please see the attached plat plan for a typical gas well separator installation and well site piping.

All permanent (on site for more than six months or longer) structures constructed or installed will be painted a **Juniper Green** color. Facilities required to comply with O.S.H.A. (Occupational Safety and Health Act) will be excluded. The required **paint** color is **Juniper Green**.

No tanks will be required at the location.

A dike will be constructed around the whole location.

If the well is capable of economic production a gas gathering line, a produced water line electric cable will be required. All lines will be buried.

A. Produced Water Line

The proposed produced water lines will be constructed from the subject well to a proposed water disposal well in Sec. 23, T15S, R9E. A tie in will be made with the water line from the proposed SITLA #34-22 well location in Sec. 22, T15S, R9E. Please see the attached produced water pipeline map.

Approximately 3,000' of 12" or smaller plastic/fiberglass gathering line would be constructed on State of Utah SITLA lands.

The Operator proposes burring the line 4 feet below the surface.

B. Gas Gathering Line

The Operator proposes building approximate **3,000 feet of plastic 14" or smaller gas gathering line. The line will start at the proposed location and be constructed to a tie in to a proposed line serving the proposed SITLA 34-22 in Section 22, T15S, R9E. Please see the attached gas gathering line map.**

The proposed gas gathering line will be a low pressure plastic line. The line will be buried in the same trench used to install the produced water line as previously described.

The gas meter run will be located within 500' of the well head. The gas line will be buried or anchored down from the well head to the meter. Meter runs will be housed and/or fenced.

The gas meter will be calibrated in place prior to any deliveries. All measurement facilities will conform to API (American Petroleum Institute) and AGA (American Gas Association) standards for gas and liquid hydrocarbon measurement.

Pipeline construction and seeding.

Silt controls will be used to minimize silt entry into Miller Creek. Controls will include but not be limited to the following, silt catchment ponds, plastic dikes and the use of straw bails.

Sand bedding may be required to protect water and gas lines in rocky areas. The

sand will come from an off sight location.

The gas and water lines will be buried. A track hoe or backhoe will be used to dig a trench approximately as wide as the bucket used to dig the trench and as deep as 4 feet. Trees will be removed as required for the trenches. The topsoil will be removed from the road and pipeline and wind rowed along the side of the road and pipeline. A motor grader will be used to remove the topsoil. Topsoil will be replaces as soon as the trench has been back filled. Seed will be spread when the topsoil is replaced.

C. Electrical Power Cable.

The operator proposes installation of a power line at some time in the future. Currently Utah Power is not able to install or supply power for this well. Power should be available in the next year or two. The power cable will be installed in a trench on the opposite side of the road from the gas gathering line and the produced water line. Please see the attached power cable map. The line will be installed in a trench dug with a backhoe. The width will be the width of a bucket and 4' deep. The trench will be back filled as soon as the line has been installed. The disturbed area will be reseeded as soon as the trench is back filled. The seed mix will be as specified by the Utah Division of Oil Gas and Mining. Erosion controls will be the same as listed for the water and gas gathering trench.

5. Location and type of water supply

Water for drilling and cementing the subject well will be trucked from **Price Cities water tank on Highway 10.**

6. Source of construction materials

All construction material for this location site and access road shall be borrow material accumulated during construction of the location site and access road. Additional road gravels or pit lining material will be obtained from private sources.

7. Methods for handling waste disposal

A) Pit construction and liners:

The reserve pit will be approximately 8 ft. deep and most of the depth shall be below the surface of the existing ground. Please see the attached plat for details.

The reserve pit will be lined.

The reserve pit will be used to hold non-flammable materials such as cuttings, salt, drilling fluids, chemicals, produced fluids, etc.

B) Produced fluids:

Produced water will be confined to the reserve pit, or if deemed necessary, a storage tank, for a period not to exceed 90 days after initial production. Produced water after the initial production will be piped to a proposed water injection well in Section 23, T15S, R9E.

C) Garbage:

A trash cage fabricated from expanded metal will be used to hold trash on location and will be removed to an authorized land fill location.

D) Sewage:

A portable chemical toilet will be supplied for human waste.

E) Site clean-up:

After the drilling and work over rig is moved off the location the well site area will be cleaned and all refuse removed.

8. Ancillary facilities

There are no ancillary facilities planned at this time and none are foreseen for the future.

9. Well-site layout and location.

The proposed location has been staked at 1,672' FSL, 792' FWL. The location has been moved out side the normal drilling window spacing due to the operators attempt to stay out of the mule deer winter habitat.

Well-site layout

Location dimensions are as follow:

A) Pad length	250 ft.
B) Pad width	190 ft.
C) Pit depth	8 ft.
D) Pit length	80 ft.
E) Pit width	50 ft.
F) Max cut	4.2 ft.
G) Max fill	3.8 ft.
H) Total cut yds.	3,680 cu. yds.
I) Pit location	west side
J) Top soil location	corner 6
K) Access road location	north end
L) Flare pit	corner C

Please see the attached location diagram for additional details.

All pits will be fenced according to the following minimum standards:

- a) Thirty nine inch net wire shall be used with at least one strand of wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.
- b) The net wire shall be no more than 2 inches above the ground. The barbed wire shall be 3 inches above the net wire. Total height of the fence shall be at least 42 inches.
- c) Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
- d) Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than 16 ft.
- e) All wire shall be stretched by using a stretching device before it is attached to the corner posts.

10. Plans for restoration of the surface

Prior to construction of the location, the top 6 inches of soil material will be stripped off the location, road and pipeline and the pit area. The topsoil removed and piled will amount to approximately 1,000 cubic yards of material on the location. **Topsoil will be stockpiled in one distinct pile for the location and wind rowed along side the pipeline for soil from the road and pipeline.** Placement of the topsoil is noted on the attached location plat. **The topsoil pile from the location will be seeded as soon as the soil is stock piled** with the seed mix provided by the Utah Division of Oil Gas and Mining. When all drilling and completion activities have been completed and the pit and pipeline trench back-filled

the topsoil will be spread. **The disturbed area will be seeded when the topsoil has been spread.** The unused portion of the location (the area outside the dead men) will be recontoured.

The dirt contractor will be provided with an approved copy of the surface use plan prior to construction activities.

Changes to the drainage during the construction activities shall be restored to its original line of flow or as near as possible when the pit is back-filled.

All disturbed areas will be recontoured to the approximate natural contours. Prior to back filling the pit the fences around the reserve pit will be removed.

The reserve pit will be reclaimed within 90 days of well completion. If the reserve pit has not dried sufficiently to allow back filling, an extension on the time requirement for back filling the pit will be requested. Once reclamation activities have begun, they shall be completed within 30 days.

After the reserve pit has been reclaimed, no depressions in the soil covering the reserve pit will be allowed. The objective is to keep seasonal rainfall and run off from seeping into the soil used to cover the reserve pit. Diversion ditches and water bars will be used to divert run off as needed.

When restoration activities have been completed, the location site and new access road cuts and shoulders shall be reseeded. Prior to reseeding, all disturbed areas will be scarified and left with a rough surface.

A) Seeding dates:

Seed will be spread when the topsoil is stock piled and when reclamation work is performed.

B) Seed Mix

At such time as the well is plugged and abandoned the operator will submit a surface reclamation plan to the surface management agency for prescribed seed mixture and reseeding requirements.

The seed mix and quantity required will be provided by the State of Utah Division of Oil Gas and Mining

11. Surface ownership:

Access road	State of Utah, SITLA
Location	State of Utah, SITLA
Pipeline	State of Utah, SITLA

12. Other information

A) Vegetation:

The vegetation coverage is slight. The majority of the existing vegetation consists of sagebrush, Rabbit brush, Bitter brush and Indian rice grass are also found on the location.

B) Dwellings:

There are no dwellings or other facilities within a one mile radius of the location.

C) Archeology:

The location has not been surveyed. The surveys have been scheduled and copy of the surveys will be forwarded to your office.

If, during operations, any archaeological or historical sites, or any objects of antiquity (subject to the antiquities act of

June 8, 1906) are discovered, all operations which would effect such sites will be suspended and the discovery reported promptly to the surface management agency.

D) Water:

The nearest water is Miller Creek 2,200 feet south of the location.

E) Chemicals:

No pesticides, herbicides or other possible hazardous chemicals will be used without the Division of Wildlife Resources approval.

F) Notification:

The Division of Wildlife Resources and the Division of Oil and Gas will be notified as follows.

a) **Location construction**

At least forty eight (48) hours prior to construction of location and access roads

b) **Location completion**

Notification will be given 24 hr prior to moving the drilling rig on location.

c) **Spud notice**

At least twenty-four (24) hours prior to spudding the well.

d) **Casing string and cementing**

At least twenty-four (24) hours prior to running casing and cementing all casing strings.

e) **BOP and related equipment tests**

At least twenty-four (24) hours prior to initial pressure tests.

f) **First production notice**

Within five (5) business days after the new well begins, or production resumes after well has been off

production for more than ninety 90 days.

g) **Completion and work over**

At least twenty-four (24) hours prior to moving the rig on location.

Division of Wildlife Resource
434-636-0260

Division of Oil, Gas, and Mining.
801-538-5340

H) Flare pit:

The flare pit will be located in corner C of the reserve pit out side the pit fence and 100 feet from the bore hole on the **west side of the location**. All fluids will be removed from the pit within 48 hours of occurrence.

13. Lessees or Operator's representative and certification

A) Representative

William A. Ryan

Rocky Mountain Consulting
350 South 800 East
Vernal, Utah 84078

Office	435-789-0968
Fax	435-789-0970
Cellular	435-828-0968

All lease operations will be conducted in such a manner that full compliance is made with all applicable laws and regulations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

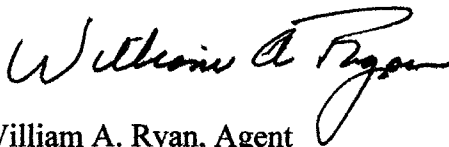
This drilling permit will be valid for a period of one year from the date of

approval. After permit termination, a new application will be filed for approval for any future operations.

B) Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill-site and access route, that I am familiar with the conditions which presently exist, that the statements made in this plan are, to the best of my knowledge and belief, true and correct, and that the work associated with the operation proposed herein will be performed by **Marathon Oil CO.** and its contractors and subcontractors in conformity with this plan and terms and conditions with this plan and the terms and conditions under which it is approved.

Date Jan. 26, 2000



William A. Ryan, Agent
Rocky Mountain Consulting

Onsite Date:

Ten Point Plan

Marathon Oil Company

SITLA #13-22

Surface Location NW ¼, SW ¼, Section 22, T15S, R9E

1. Surface Formation:

Mancos

2. Estimated Formation Tops and Datum:

<u>Formation</u>	<u>Depth</u>	<u>Datum</u>
Mancos	Surface	+6,096' KB
Ferron	2,511'	+3,585'
#1 Coal	2,548'	+3,548'
#1 Coal	2,624'	+3,472'
Tunnunk	2,781'	+3,315'
T.D.	2,882'	+3,214'

3. Producing Formation Depth:

Formation objective includes both the #1 and #2 Coal.

4. Proposed Casing:

<u>Hole</u> <u>Size</u>	<u>Casing Grade</u> <u>Size</u> <u>Weight/Ft.</u>	<u>Setting</u> <u>& Tread</u>	<u>Casing</u> <u>Depth</u>	<u>New/Used</u>
11	8 5/8 24	J-55/STC/8rd	300	New
7 7/8	5 1/2 17	L-40/STC/8rd	T.D.	New

8

Cement Program:

<u>Casing Size</u>	<u>Cement Type</u>	<u>Cement Amount</u>	<u>Cement Yield</u>	<u>Cement Weight</u>
8 5/8	Premium Plus 2% Calcium Chloride .25 lb/sk. Cello Flake	135 sks. +/-	1.19 cu. ft./sk.	15.6 lbs./gal.
5 1/2 Lead. (2,011-1,511')	50/50 Pozmix 10% Cal Seal 2% Calcium Chloride .25 lb/sk. Cello Flake 8% Gel	60 sks. +/-	1.89 cu. ft./sk.	12.7 lbs./gal.
Tail (T.D.-2,011')	Thixotropic 10% Cal Seal 1% Calcium Chloride	120 sks. +/-	1.6 cu. ft./sk.	14.2 lbs./gal.

5. BOP and Pressure Containment Data:

The anticipated bottom hole pressure will be less than 3000 psi.

A 2000-psi WP BOP system as described in the BOP and Pressure Containment Data (attached) will be installed and maintained from the 8 5/8" surface casing. The BOP system including the casing will be pressure tested to the minimum standards set forth in "On Shore Order #2". The BOP will be mechanically checked daily during the drilling operation.

6. Mud Program:

<u>Interval</u>	<u>Mud weight lbs./gal.</u>	<u>Viscosity Sec./Qt.</u>	<u>Fluid Loss MI/30 Mins.</u>	<u>Mud Type</u>
0-300	Clear Water	----	No Control	Water/Gel
300-T.D.	8.4-8.6	30	8-10	Water/Gel

7. Auxiliary Equipment:

Upper Kelly cock, full opening stabbing valve, 2 1/2" choke manifold and pit level indicator.

8. Testing, Coring, Sampling and Logging:

- a) Test: None are anticipated.
- b) Coring: There is the possibility of sidewall coring.
- c) Sampling: Every 10' from 1,800' to T.D.
- d) Logging:

Type	Interval
Array Induction-Gamma Ray-SP-Caliper	T.D. to Surf. Csg
High Resolution Spectral Density-PEF	T.D. to Surf. Csg
Compensated Neutron, Microlog	T.D. to Surf. Csg

9. Abnormalities (including sour gas):

No abnormal pressures, temperatures or other hazards are anticipated. Oil and gas shows are anticipated. Other wells drilled in the area have not encountered over pressured zones or H₂S.

10. Drilling Schedule:

The anticipated starting date is April 15, 2000. Duration of operations expected to be 3 days.

Statement of use of Hazardous Material

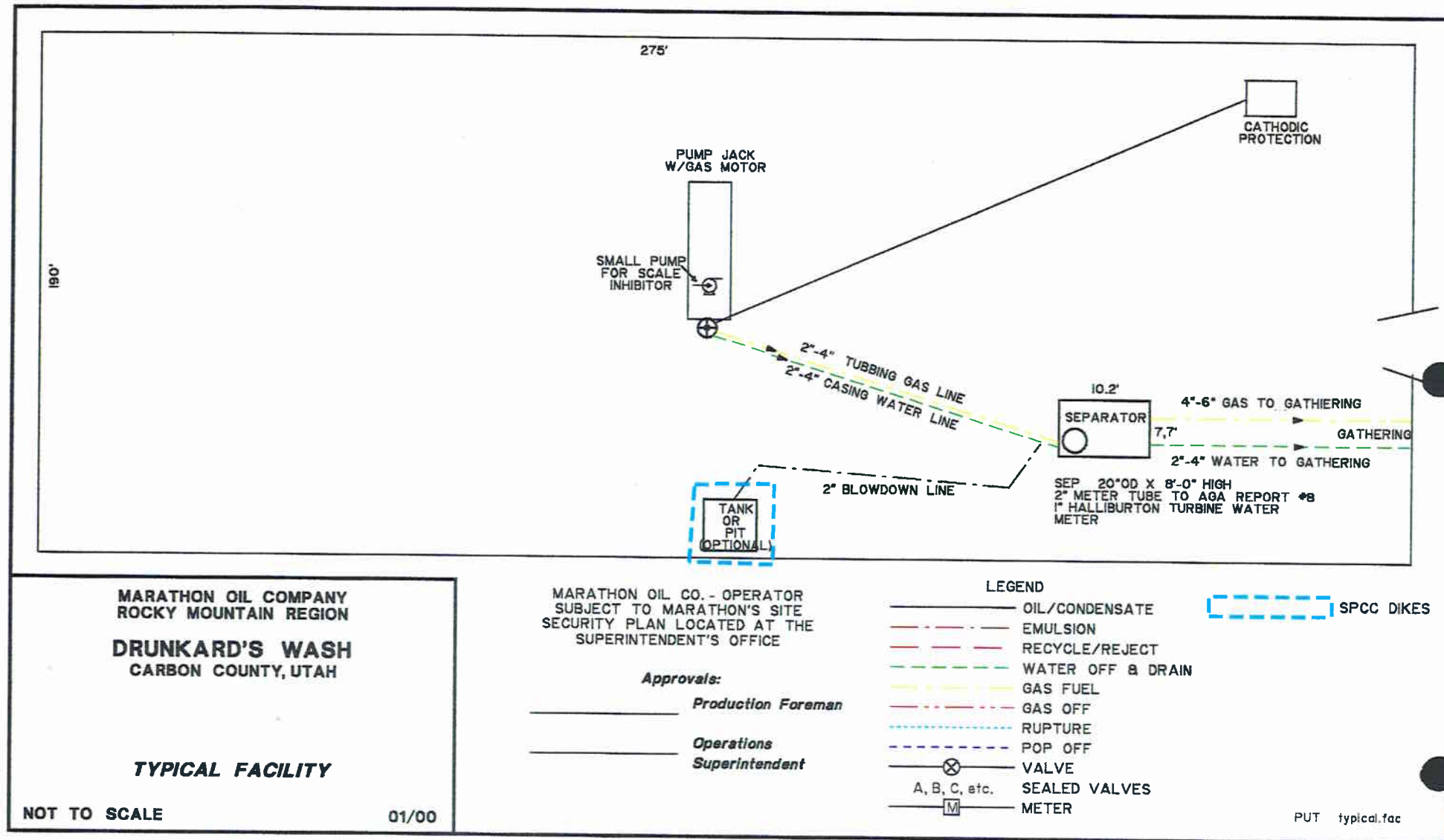
No chemical(s) from the EPA's Consolidated list of Chemicals subject to Reporting under Title III of the Superfund Amendments and Reauthorization, Act (SARA) of 1986.

Will be used, produced, transported, stored, disposed, or associated with the proposed action, No extremely hazardous substances, as defined in 40 cfr 355, will be used, produced, stored, transported, disposed, or associated with the proposed action.

If you require additional information please contact:

William A Ryan
Agent
Rocky Mountain Consulting
350 S. 800 E.
Vernal Utah, 84078

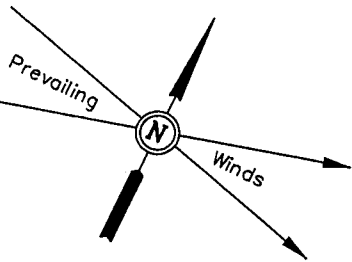
Telephone
(435) 789-0968 office
(435) 828-0968 cellular
(435) 789-0970 fax



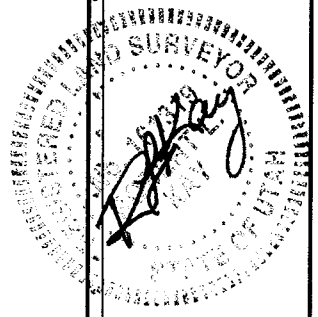
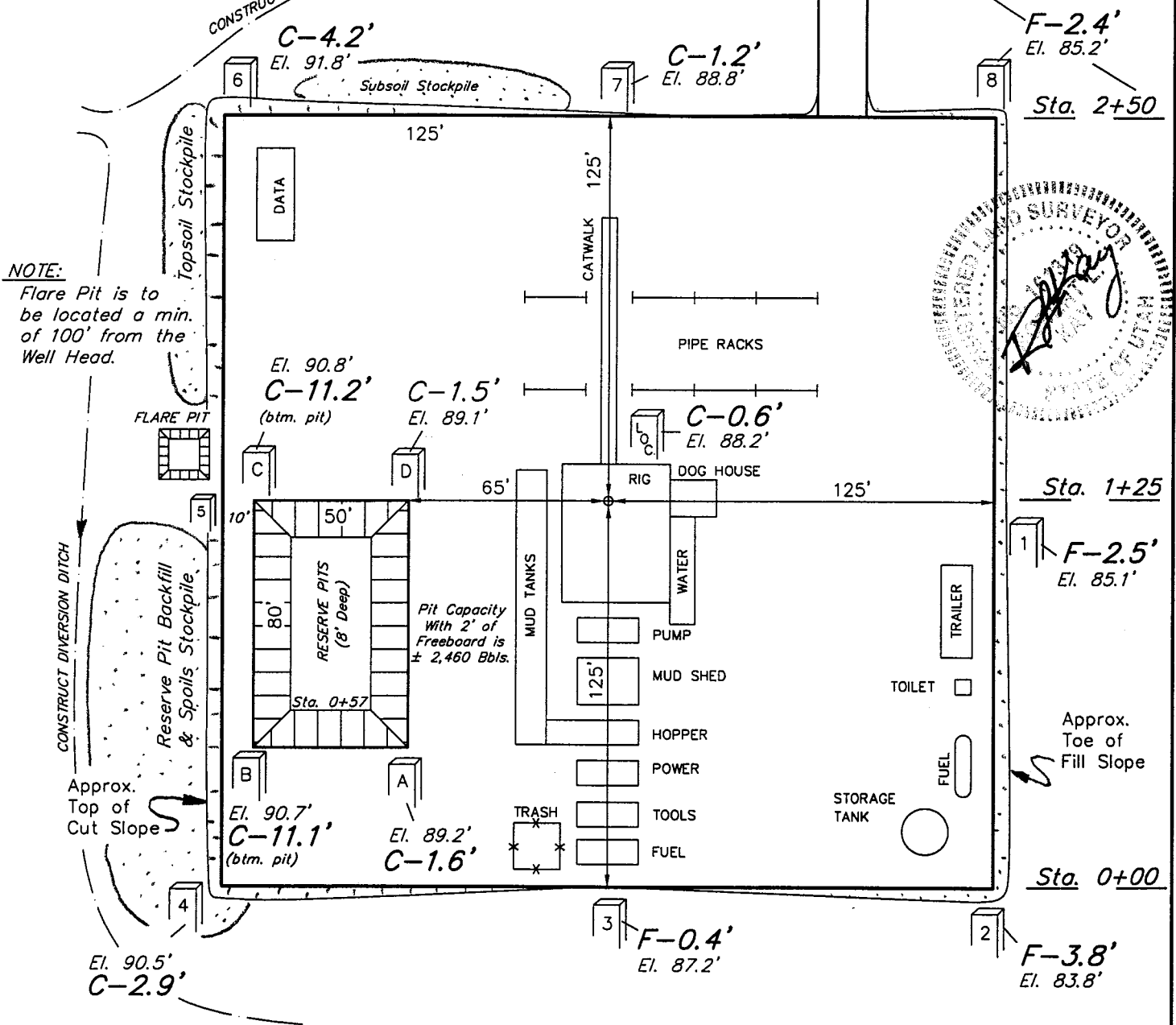
MARATHON OIL CO.

LOCATION LAYOUT FOR

SITLA #13-22
SECTION 22, T15S, R9E, S.L.B.&M.
1672' FSL 792' FWL



SCALE: 1" = 50'
DATE: 9-3-99
Drawn By: C.B.T.
Revised: 1-5-00 C.B.T.



Elev. Ungraded Ground at Location Stake = 6088.2'
Elev. Graded Ground at Location Stake = 6087.6'

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East • Vernal, Utah 84078 • (435) 789-1017

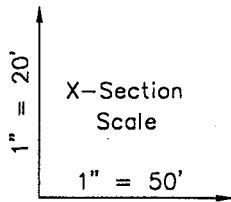
MARATHON OIL CO.

TYPICAL CROSS SECTIONS FOR

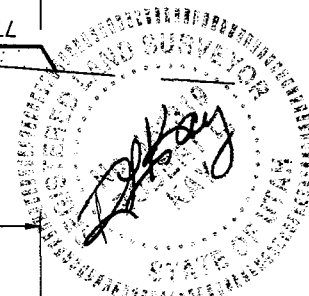
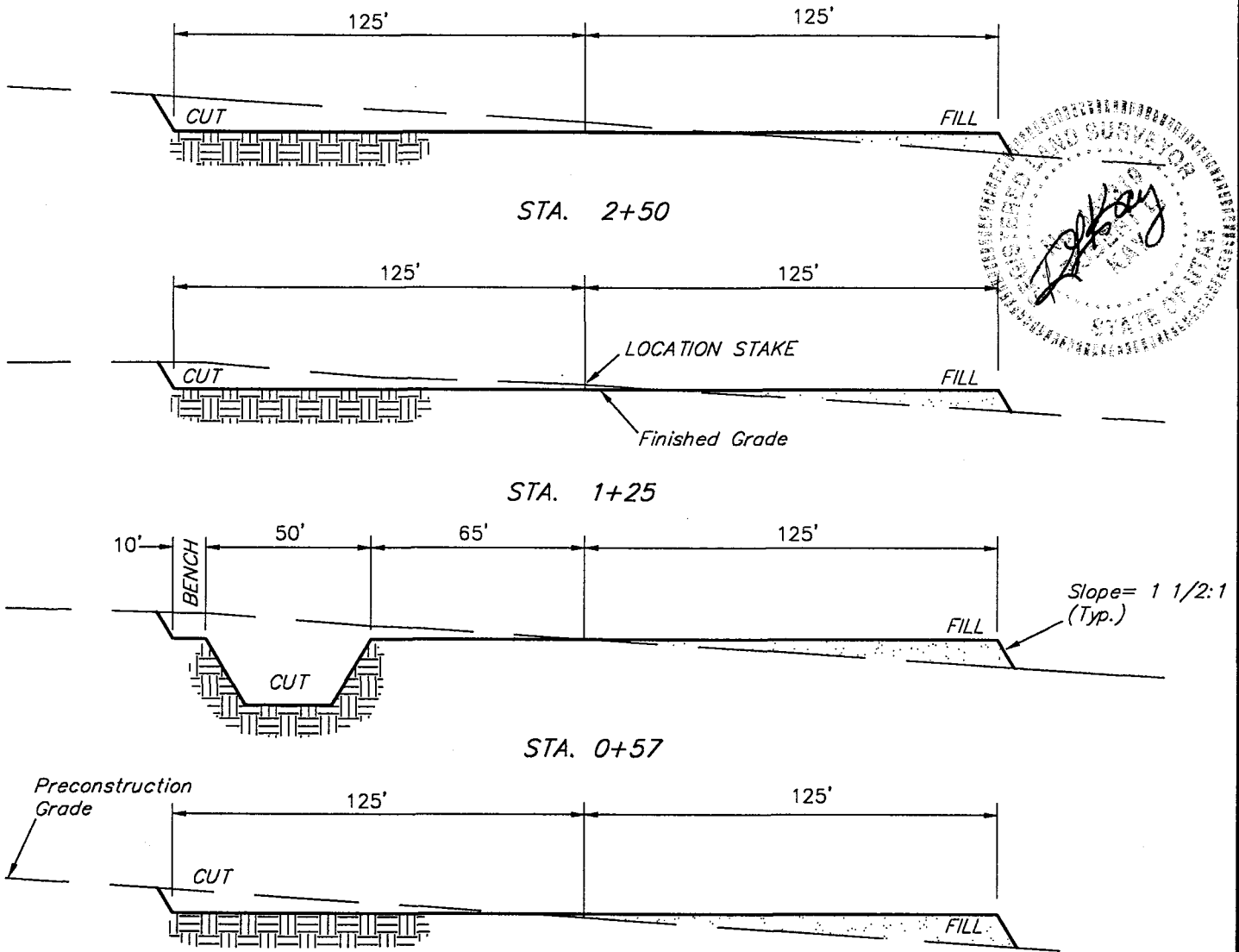
SITLA #13-22

SECTION 22, T15S, R9E, S.L.B.&M.

1672' FSL 792' FWL



DATE: 9-3-99
Drawn By: C.B.T.



NOTE:

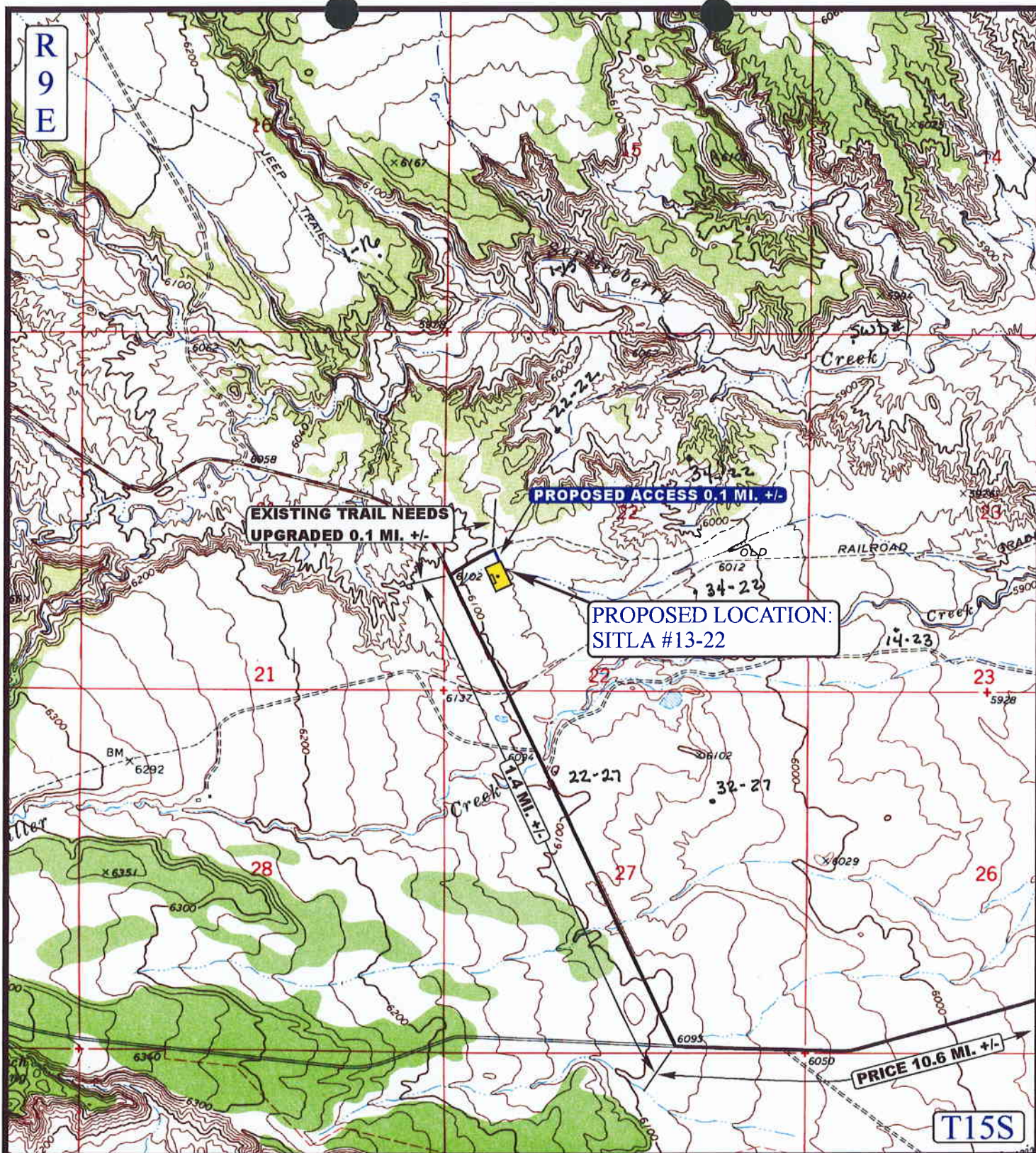
Topsoil should not be Stripped Below Finished Grade on Substructure Area.

APPROXIMATE YARDAGES

(6") Topsoil Stripping	= 1,150 Cu. Yds.
Remaining Location	= 2,530 Cu. Yds.
TOTAL CUT	= 3,680 CU.YDS.
FILL	= 2,030 CU.YDS.

EXCESS MATERIAL AFTER 5% COMPACTION	= 1,540 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 1,540 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	= 0 Cu. Yds.

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85 So. 200 East • Vernal, Utah 84078 • (435) 789-1017



LEGEND:

--- PROPOSED ACCESS ROAD
 --- EXISTING ROAD

MARATHON OIL CO.

SITLA #13-22

SECTION 22, T15S, R9E, S.L.B.&M.

1672' FSL 792' FWL



Uintah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
 (435) 789-1017 * FAX (435) 789-1813

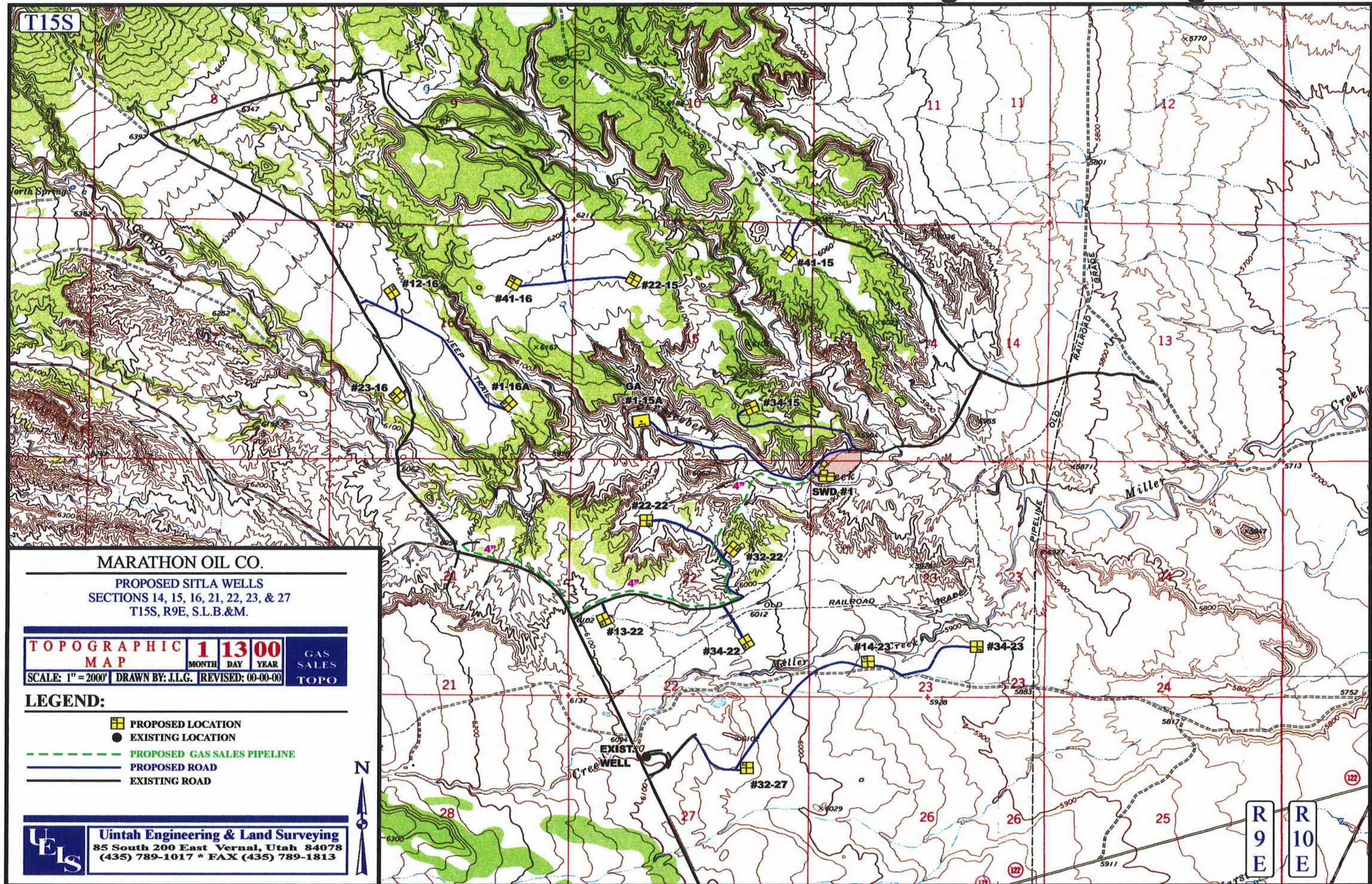


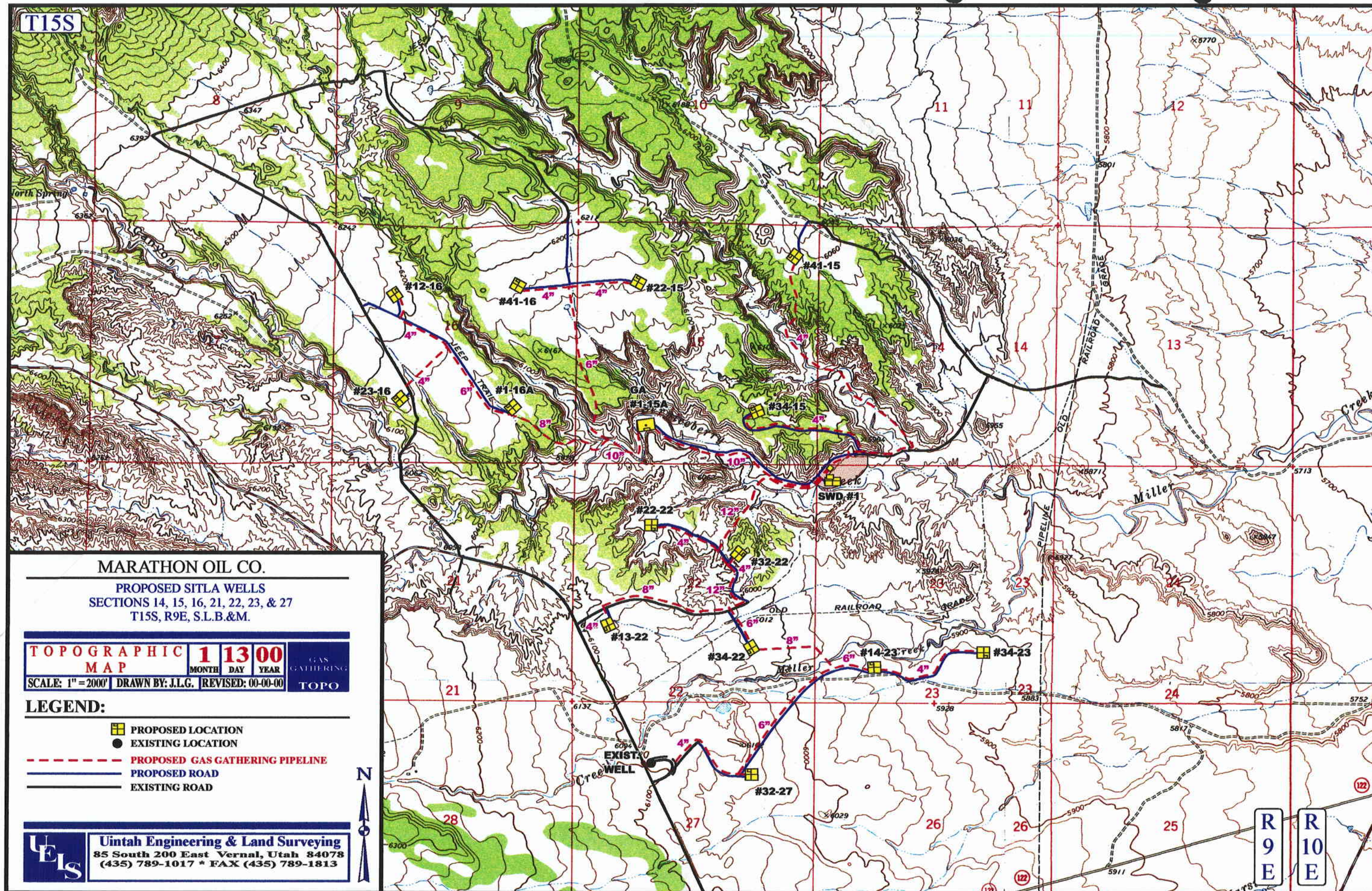
TOPOGRAPHIC
 MAP

9 3 99
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: J.L.G. REVISED: 12-20-99

B
 TOPO





MARATHON OIL CO.

PROPOSED SITLA WELLS
SECTIONS 14, 15, 16, 21, 22, 23, & 27
T15S, R9E, S.L.B.&M.

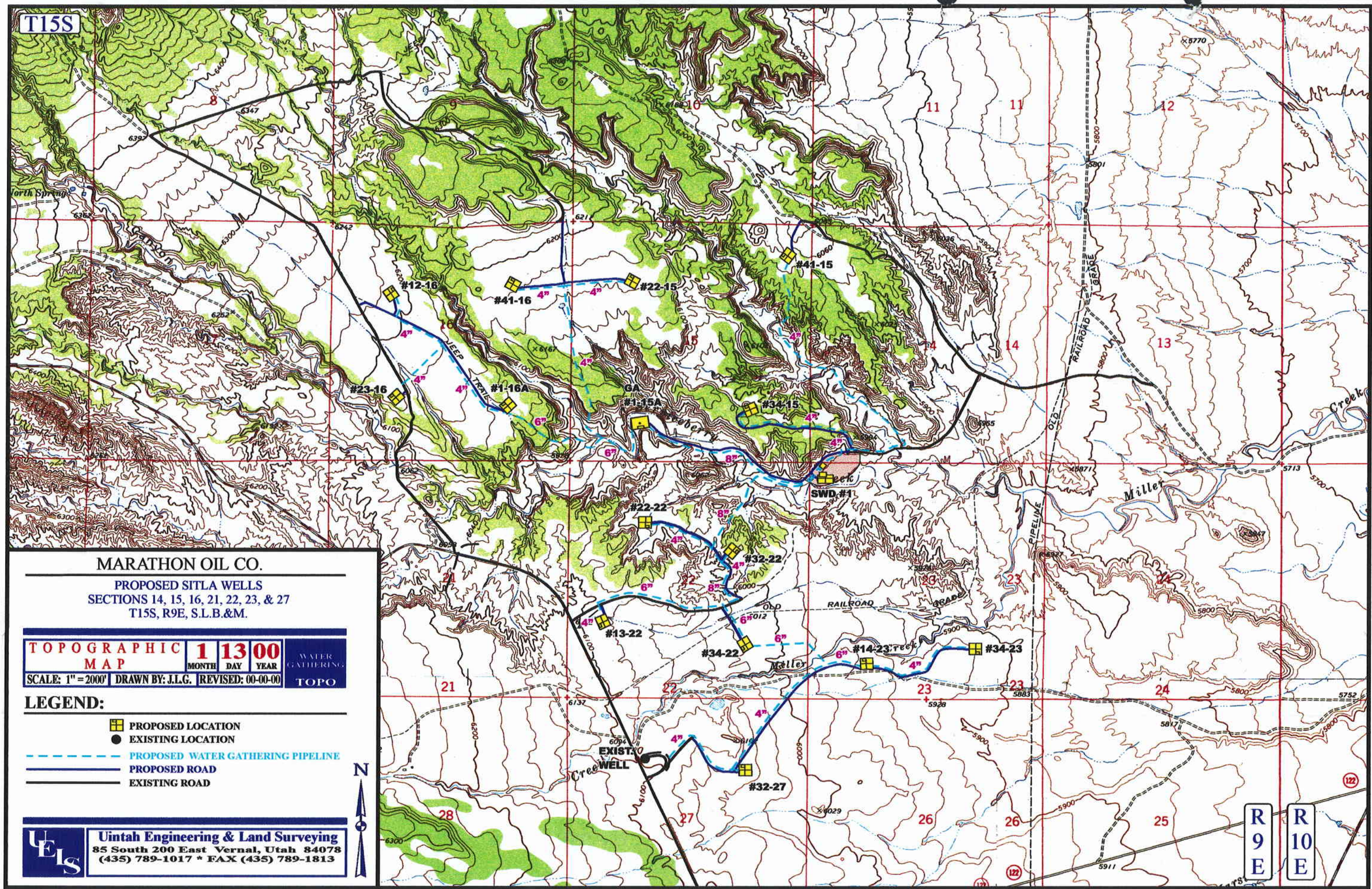
TOPOGRAPHIC **1 13 00** **GAS GATHERING**
MAP **MONTH DAY YEAR** **TOPO**
SCALE: 1" = 2000' DRAWN BY: J.L.G. REVISED: 00-00-00

LEGEND:

- PROPOSED LOCATION
- EXISTING LOCATION
- PROPOSED GAS GATHERING PIPELINE
- PROPOSED ROAD
- EXISTING ROAD



Utah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813



MARATHON OIL CO.
PROPOSED SITLA WELLS
SECTIONS 14, 15, 16, 21, 22, 23, & 27
T15S, R9E, S.L.B.&M.

TOPOGRAPHIC MAP
SCALE: 1" = 2000' DRAWN BY: J.L.G. REVISED: 00-00-00
1 13 00
MONTH DAY YEAR
WATER GATHERING
TOPO

LEGEND:
PROPOSED LOCATION
EXISTING LOCATION
PROPOSED WATER GATHERING PIPELINE
PROPOSED ROAD
EXISTING ROAD

U&L
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 02/07/2000

API NO. ASSIGNED: 43-007-30654

WELL NAME: SITLA 13-22

OPERATOR: MARATHON OIL COMPANY (N3490)

CONTACT: BILL RYAN, AGENT

PHONE NUMBER: 435-789-0968

PROPOSED LOCATION:

NWSW 22 150S 090E

SURFACE: 1672 FSL 0792 FWL

BOTTOM: 1672 FSL 0792 FWL

CARBON

UNDESIGNATED (2)

LEASE TYPE: 3 - State

LEASE NUMBER: ML-48209

SURFACE OWNER: 3 - State

PROPOSED FORMATION: FRSD

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering	<i>RJK</i>	4-19-00
Geology		
Surface		

RECEIVED AND/OR REVIEWED:

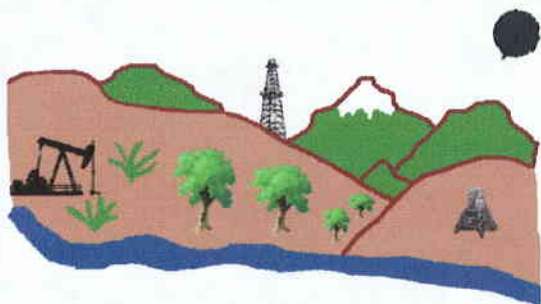
☒ Plat
☒ Bond: Fed[] Ind[] Sta[3] Fee[]
(No. 5922542)
☒ Potash (Y/N)
☒ Oil Shale (Y/N) *190 - 5 (B)
☒ Water Permit
(No. PRWID)
☒ RDCC Review (Y/N)
(Date:)
☒ Fee Surf Agreement (Y/N)

LOCATION AND SITING:

☐ R649-2-3. Unit
☐ R649-3-2. General
Siting:
☐ R649-3-3. Exception
☒ Drilling Unit
Board Cause No: 243-1 (160')
Eff Date: 10-13-98
Siting: 660' to Oil Unit Boundary & 1320' between wells.
☐ R649-3-11. Directional Drill

COMMENTS: Need Presite. (Conducted 3-10-00)

STIPULATIONS: ① STATEMENT OF BASIS



Utah Oil Gas and Mining

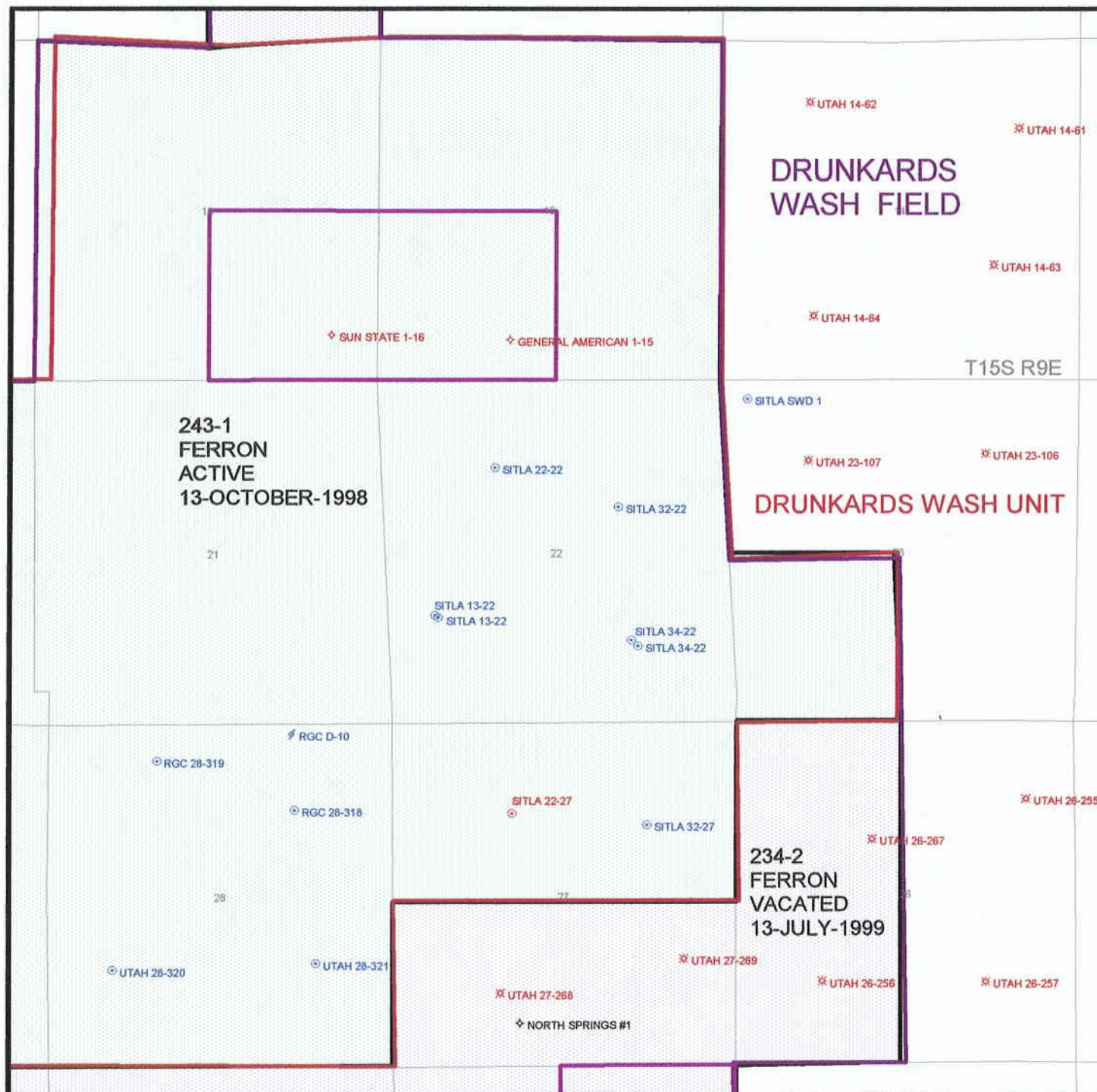
Serving the Industry, Protecting the Environment

OPERATOR: MARATHON OIL COMPANY (N3490)

FIELD: UNDESIGNATED (002)

SEC. 22, T 15 S, R 9 E

COUNTY: CARBON CAUSE No: 243-1 160 ACTES



PREPARED
DATE: 14-Feb-2000



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WILDLIFE RESOURCES

Michael O. Leavitt
Governor

Kathleen Clarke
Executive Director

John Kimball
Division Director

Southeastern Region

475 West Price River Drive, Suite C

Price, Utah 84501-2860

435-636-0260

435-637-7361 (Fax)

Marathon Oil Presite Inspections Cont. 3/9-10/00 (v. 2)

SITLA 32-22: This area is within the big game winter range, therefore seasonal restrictions for construction and mitigation requirements should be followed. There are 5 ferruginous hawk nests within ½ mile of this location, however, all of these nests were old and dilapidated.

SITLA 14-23: UDWR does not have any wildlife concerns with this well.

SITLA 34-23: UDWR does not have any wildlife concerns with this well.

SITLA 22-22: This area is within the big game winter range, therefore seasonal restrictions for construction and mitigation requirements should be followed. There are 3 raptor nests within ½ mile of this location (99-673, 99-672, 99-722, 99-721, 99-723, 99-724), however, all of these nests were either dilapidated or have been inactive for more than 3 years.

SITLA 34-22: We did not look at this well site. It is our understanding that this site has already been onsite reviewed and permitted by Fleet Energy. Marathon Oil, as the successor operator, now requests that the permit be rescinded and a new permit be issued in their name for this location. This area is within the big game winter range, therefore seasonal restrictions for construction and mitigation requirements should be followed. There are 6 raptor nests within ½ mile of this location (99-720, 99-721, 99-725), however, all of these nests were either dilapidated or have been inactive for more than 3 years.

SITLA 32-27: We did not look at this well site. It is our understanding that this site has already been onsite reviewed and permitted by Fleet Energy. Marathon Oil, as the successor operator, now requests that the permit be rescinded and a new permit be issued in their name for this location. This site is within the Big Game Winter Range. Additionally, there are 2 raptor nests within ½ mile (99-720 & 99-725), however, these nests were dilapidated and have been inactive for > 3 years.

SITLA 13-22: We did not look at this well site. It is our understanding that this site has already been onsite reviewed and permitted by Fleet Energy. Marathon Oil, as the successor operator, now requests that the permit be rescinded and a new permit be issued in their name for this location. This site is within the Big Game Winter Range. Additionally, there are 2 raptor nests within ½ mile (99-720 & 99-722), however, both of these nests were dilapidated.

People present:

Chris Colt - UDWR

Chris Kierst - UDOGM

Randy Meabon - Marathon Oil

Charlie Arterbery - Marathon Oil

David Kay - UELS

Bill Ryan - Rocky Mtn Consulting

Kimball Rassmussen - Nielson Const.

David Wilcox - Nielson Const.

ON-SITE PREDRILL EVALUATION

Division of Oil, Gas and Mining

OPERATOR: Marathon Oil Company

WELL NAME & NUMBER: SITLA 13-22

API NUMBER: 43-007-30654

LEASE: SITLA FIELD/UNIT: UNDESIGNATED

LOCATION: 1/4, 1/4 NESW Sec: 22 TWP: 15 S RNG: 9 E 1672 FSL 792 FWL
LEGAL WELL SITING: 660' F SEC. LINE; 660' F 1/4, 1/4 LINE; 1320' F ANOTHER WELL.

GPS COORD (UTM): X = 508030; Y = 4372424

SURFACE OWNER: SITLA

PARTICIPANTS

C. Kierst (DOGM), C. Colt (DWR), B. Ryan (Rocky Mtn. Consulting), D. Kay (U.E.L.S.), Randy Meabon (Marathon), D. Wilcox (Nielson Construction, C. Arterbery (drilling consultant)

REGIONAL/LOCAL SETTING & TOPOGRAPHY

Western margin of Colorado Plateau/~5.25 miles east of the base of Wasatch Plateau. The location is on the Quaternary Slope Wash covering the westward-dipping Blue Gate Member of the Mancos Shale (just above the Garley Canyon Beds). The pad is on open ground which slopes gently east and is ~600' northeast of the Wattis Highway, amongst Quaternary/Tertiary Pediment Mantle-capped erosional remnants.

SURFACE USE PLAN

CURRENT SURFACE USE: Grazing and wildlife habitat.

PROPOSED SURFACE DISTURBANCE: 250' X 250' pad with 50' X 80' X 8' inboard pit and ~528' of upgraded surface for approach road. 528' of new road will also be required.

LOCATION OF EXISTING WELLS WITHIN A 1 MILE RADIUS: 1 active gas well 1 injection well and 6 active APD's are within the 1 mile radius of this well.

LOCATION OF PRODUCTION FACILITIES AND PIPELINES: ~1.75 miles east of pad (Questar pipeline runs north-south).

SOURCE OF CONSTRUCTION MATERIAL: Native soils and rock will be used and soil will be stored in berm.

ANCILLARY FACILITIES: none

WASTE MANAGEMENT PLAN:

Portable chemical toilets which will be emptied into the municipal waste treatment system; garbage cans on location will be emptied into centralized dumpsters which will be emptied into an approved landfill. No crude oil is expected to be produced. Drilling fluid, completion frac fluid and cuttings will be buried in the pit after evaporation and slashing the pit liner. Produced water will be gathered to the evaporation pit and eventually injected into the Navajo Sandstone via

a Marathon-operated salt water disposal well. Used oil from drilling operations and support is hauled to a used oil re-cycler and re-used.

ENVIRONMENTAL PARAMETERS

AFFECTED FLOODPLAINS AND/OR WETLANDS: The location is within ½ mile northeast of the toe of a lobe of Quaternary/Tertiary Pediment Mantle which may be charged with coal mine discharge water and/or Miller Creek water from natural sources. Although the pad is on the proximal end of a lobe of Quaternary Slope Wash, the area north, southeast, south and west of the location is generally Blue Gate Member shales (above and below the Garley Canyon Sandstone Beds) on the surface and is swampy in places where ground water is forced to the surface to flow over relatively impermeable shaley soils. Miller Creek-saturated soils may locally be present at the surface. The nearest moving surface waters are ~½ mile south in Miller Creek and ponded water / swampy areas are ~2000' to the south and southeast.

FLORA/FAUNA: sagebrush, grasses / birds, lizards, coyotes, rodents, raptors, elk, deer, reptiles. See attached Wildlife commentary.

SOIL TYPE AND CHARACTERISTICS: Poorly to moderately-permeable silty soil on Quaternary Slope Wash.

SURFACE FORMATION & CHARACTERISTICS: Blue Gate Shale Member (just above Garley Canyon Beds) of Mancos Shale. Garley Canyon Sandstone Beds are discontinuous in the area, relatively thin and near the surface if they are present.

EROSION/SEDIMENTATION/STABILITY: Stable flat ground with little slope.

PALEONTOLOGICAL POTENTIAL: None observed.

RESERVE PIT

CHARACTERISTICS: Dugout, earthen pit, as above.

LINER REQUIREMENTS (Site Ranking Form attached): Synthetic liner

SURFACE RESTORATION/RECLAMATION PLAN

As per State surface agreement.

SURFACE AGREEMENT: Agreement filed with State.

CULTURAL RESOURCES/ARCHAEOLOGY: cleared and filed with state.

OTHER OBSERVATIONS/COMMENTS

This onsite review document is a pro forma document placed in the file under new well name, API number and date and accompanied by the entire onsite document from the Fleet Energy SITLA 13-22 (43-007-30554) which was onsite reviewed on 4/1/99 by K. Michael Hebertson. No changes occurred in the ensuing interval (little more than a year) other than a small change in the location position. Fleet Energy transferred their interests in the greater project to Marathon Oil. The Statement of Basis is changed to reflect a new API#, operator, Statement of Basis author (myself) and Basis document creation date. Other than the addition of some personal observations regarding the nature of the local ground water environment, the document otherwise reports the

observations of Mr. Hebertson in his 5/5/99 Statement of Basis
document.

ATTACHMENTS:

1 photo was originally taken of this location.

Chris Kierst
DOGM REPRESENTATIVE

10-March-2000 10:20 AM
DATE/TIME

**Evaluation Ranking Criteria and Ranking Score
For Reserve and Onsite Pit Liner Requirements**

<u>Site-Specific Factors</u>	<u>Ranking</u>	<u>Site Ranking</u>
Distance to Groundwater (feet)		
>200	0	
100 to 200	5	
75 to 100	10	
25 to 75	15	
<25 or recharge area	20	<u>5</u>
Distance to Surf. Water (feet)		
>1000	0	
300 to 1000	2	
200 to 300	10	
100 to 200	15	
< 100	20	<u>0</u>
Distance to Nearest Municipal Well (feet)		
>5280	0	
1320 to 5280	5	
500 to 1320	10	
<500	20	<u>0</u>
Distance to Other Wells (feet)		
>1320	0	
300 to 1320	10	
<300	20	<u>0</u>
Native Soil Type		
Low permeability	0	
Mod. permeability	10	
High permeability	20	<u>10</u>
Fluid Type		
Air/mist	0	
Fresh Water	5	
TDS >5000 and <10000	10	
TDS >10000 or Oil Base Mud Fluid	15	
containing significant levels of hazardous constituents	20	<u>3</u>
Drill Cuttings		
Normal Rock	0	
Salt or detrimental	10	<u>0</u>
Annual Precipitation (inches)		
<10	0	
10 to 20	5	
>20	10	<u>5</u>
Affected Populations		
<10	0	
10 to 30	6	
30 to 50	8	
>50	10	<u>0</u>
Presence of Nearby Utility Conduits		
Not Present	0	
Unknown	10	
Present	15	<u>0</u>

Final Score

23

(Level II Sensitivity)

DIVISION OF OIL, GAS AND MINING

APPLICATION FOR PERMIT TO DRILL STATEMENT OF BASIS

Operator Name: Marathon Oil Company

Name & Number: SITLA 13-22

API Number: 43-007-30654

Location: 1/4, 1/4 NESW Sec. 22 T. 15 S R. 9 E County: Carbon

Geology/Ground Water:

The stratigraphic section exposed on the surface at this location occurs just above the Garley Canyon Sandstone Beds of the Blue Gate Member of the Mancos Shale. The Garley Canyon Sandstone Beds outcrop northeast and southeast of the pad ~1500' and are unlikely to be an aquifer in this area but could be farther to the northwest. The location is about 1/4 mile northeast of the toe of a lobe of Quaternary/Tertiary Pediment Mantle which may be charged with coal mine discharge water and/or Miller Creek water from natural sources. Although the pad is on the proximal end of a lobe of Quaternary Slope Wash, the area north, south, west and southwest of the location is generally Blue Gate Member shales (above the Garley Canyon Sandstone Beds) on the surface and is swampy in places where ground water is forced to the surface to flow over relatively impermeable shaley soils. No high quality ground water is expected to be encountered although Miller Creek-saturated soils may locally be present at the surface. The proposed casing and cementing program will adequately isolate any zones of water penetrated.

Reviewer: Chris Kierst Date: 4/18/2000

Surface:

The silty, poorly to moderately-permeable soil is developed on Quaternary Slope Wash covering the Blue Gate Member of the Mancos Shale. The nearest moving surface waters are ~ 1/2 mile to the south and standing water/swampy areas are within 1/2 mile to the south and southeast. Precipitation will not need to be deflected around the location, however, berms will be placed around the pad and low water crossings will be used in the areas that would otherwise collect water. Pit integrity will be maintained by the use of a synthetic liner. There are no nearby culinary or irrigation water supply wells. The site was photographed and characterized on 1-Apr-1999. Provision was made to ensure site rehabilitation, litter and waste control, preservation of drainage patterns and the integrity of local infrastructure, groundwater and other resources. The well utilities and gas gathering system will follow the approach roadway.

Reviewer: Chris Kierst Date: 4/18/2000

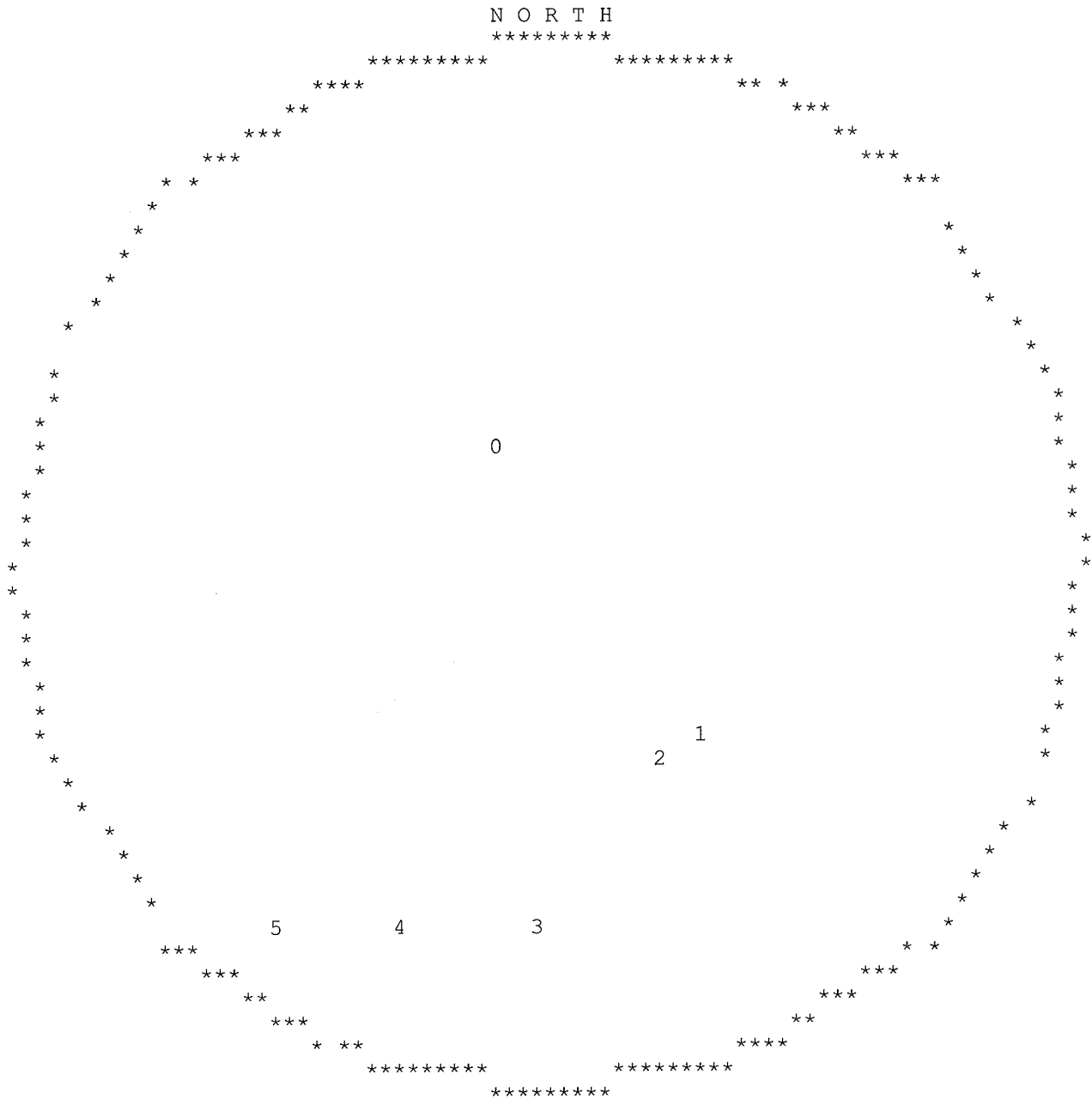
Conditions of Approval/Application for Permit to Drill:

- 1) Berm location and pit.
- 2) Minimum 12 mil synthetically lined pit and blooie pit.
- 3) Dust abatement will be used while drilling and on access roads.
- 4) Culverts will be used where necessary on the access road.

UTAH DIVISION OF WATER RIGHTS
WATER RIGHT POINT OF DIVERSION PLOT CREATED THU, APR 1
PLOT SHOWS LOCATION OF 9 POINTS OF DIV

PLOT OF AN AREA WITH A RADIUS OF 5280 FEET
N 1672 FEET, E 792 FEET OF THE SW CORNER,
SECTION 22 TOWNSHIP 15S RANGE 9E SL BASE

PLOT SCALE IS APPROXIMATELY 1 INCH = 2000 FE



UTAH DIVISION OF WATER RIGHTS
NWPLAT POINT OF DIVERSION LOCATION PRO

MAP CHAR	WATER RIGHT	CFS	QUANTITY AND/OR	AC-FT	SOURCE DESCRIPTION or WELL INFO DIAMETER DEPTH YEAR LOG	POIN NORTH
0	91 4980	.0000		4.73	Unnamed Washes	S 2300
			WATER USE(S): STOCKWATERING State of Utah School & Institutional Tru 675 East 500 South, 5th Floor			
1	91 4	3.5000		.00	Miller Creek	N 20
			WATER USE(S): IRRIGATION STOCKWATERING Feichko, Frank H. (Sr) and Carol L. 871 East 6370 South			
1	91 56	2.2000		.00	Miller Creek	N 20
			WATER USE(S): IRRIGATION Feichko, Frank H. (Sr) and Carol L. 871 East 6370 South			
1	91 784	.3000		.00	Miller Creek	N 20
			WATER USE(S): IRRIGATION STOCKWATERING Marsing, Orson Route #1			
1	91 4814	.2000		.00	Miller Creek	N 20
			WATER USE(S): IRRIGATION Feichko, Frank H. and Carol L. P.O. Box 458			
2	91 4812	.0000		1000.00	Miller Creek	S 300
			WATER USE(S): IRRIGATION DOMESTIC STOCKWATERING Feichko, Frank H. Sr. & Carol L. P.O. Box 1436			
3	91 2136	.0000		.00	Miller Creek	
			WATER USE(S): STOCKWATERING State of Utah School & Institutional Tru 675 East 500 South, Suite 500			
4	91 2405	.0000		.00	Miller Creek	
			WATER USE(S): State of Utah School & Institutional Tru 675 East 500 South, Suite 500			
5	91 3758	.0000		.00	Miller Creek	
			WATER USE(S): River Gas Corporation 511 Energy Center Boulevard Texaco Exploration And Production Inc. P.O. Box 2100 Dominion Reserves - Utah Inc. 901 East Byrd St.			

Well name:	4-00 Marathon SITLA #13-22	
Operator:	Marathon	Project ID:
String type:	Production	43-007-30654
Location:	Carbon County	

Design parameters:

Collapse

Mud weight: 8.330 ppg
Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 0 psi
Internal gradient: 0.433 psi/ft
Calculated BHP: 1,247 psi

No backup mud specified.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on buoyed weight.
Neutral point: 2,518 ft

Environment:

H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 115 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 368 ft

Cement top: 1,800 ft

Non-directional string.

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	2882	5.5	17.00	L-80	LT&C	2882	2882	4.767	99.3
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	1247	6290	5.04	1247	7740	6.21	43	338	7.90 J

Prepared RJK
by: Utah Dept. of Natural Resources

Date: April 19,2000
Salt Lake City, Utah

ENGINEERING STIPULATIONS: NONE

Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.
Collapse is based on a vertical depth of 2882 ft, a mud weight of 8.33 ppg The casing is considered to be evacuated for collapse purposes.
Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Well name:	4-00 Marathon SITLA #13-22	
Operator:	Marathon	Project ID:
String type:	Surface	43-007-30654
Location:	Carbon County	

Design parameters:

Collapse

Mud weight: 8.330 ppg
Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 79 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 160 ft

Cement top: Surface

Burst

Max anticipated surface pressure: 0 psi
Internal gradient: 0.433 psi/ft
Calculated BHP 130 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on buoyed weight.
Neutral point: 262 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 1,850 ft
Next mud weight: 8.330 ppg
Next setting BHP: 801 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 1,850 ft
Injection pressure 1,850 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	300	8.625	24.00	J-55	ST&C	300	300	7.972	14.4

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	130	1370	10.56	130	2950	22.73	6	244	38.74 J

Prepared RJK
by: Utah Dept. of Natural Resources

Date: April 19,2000
Salt Lake City, Utah

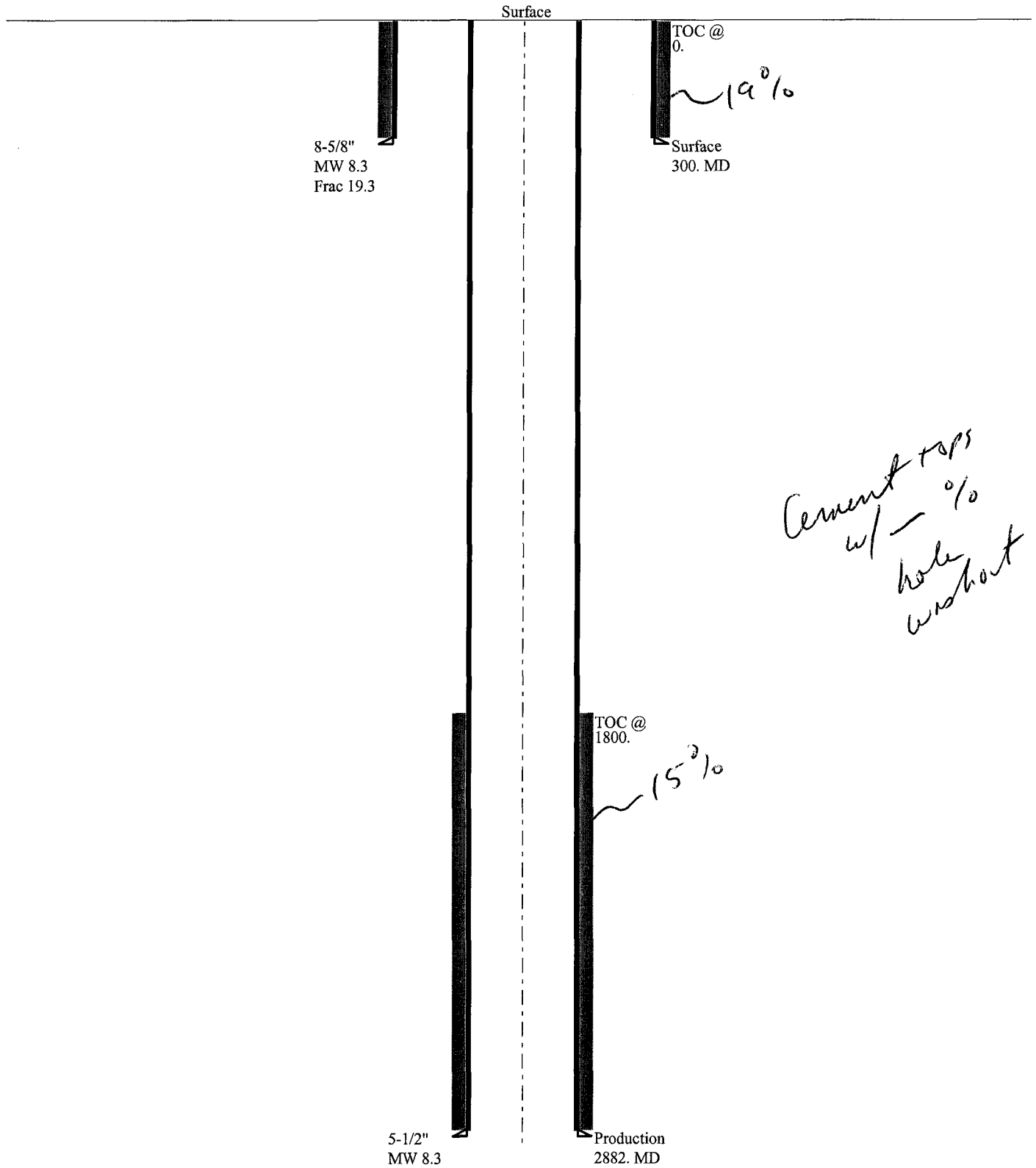
ENGINEERING STIPULATIONS: NONE

Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.
Collapse is based on a vertical depth of 300 ft, a mud weight of 8.33 ppg The casing is considered to be evacuated for collapse purposes.
Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

4-00 Marathon SITLA #13-22

Casing Schematic





State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Kathleen Clarke
Executive Director

Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

April 20, 2000

Marathon Oil Company
1501 Stampede Avenue
Cody WY 82414

Re: SITLA 13-22 Well, 1672' FSL, 792' FWL, NW SW, Sec. 22, T. 15S, R. 9E,
Carbon County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the enclosed Conditions of Approval, approval to drill the referenced well is granted.

This approval will expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-007-30654.

Sincerely,

A handwritten signature in cursive script, reading 'John R. Baza'.
John R. Baza
Associate Director

er

Enclosures

cc: Carbon County Assessor
SITLA

Operator: Marathon Oil Company

Well Name & Number: SITLA 13-22

API Number: 43-007-30654

Lease: ML-48232

Location: NW SW **Sec.** 22 **T.** 15S **R.** 9E

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

Notify the Division of the following actions during drilling of this well:

- . 24 hours prior to cementing or testing casing
- . 24 hours prior to testing blowout prevention equipment
- . 24 hours prior to spudding the well
- . within 24 hours of any emergency changes made to the approved drilling program
- . prior to commencing operations to plug and abandon the well

Division contacts (please leave a voice mail message if the person is not available to take the call):

- . Dan Jarvis at (801)538-5338
- . Robert Krueger at (801)538-5274 (plugging)
- . Carol Daniels at (801)538-5284 (spud)

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.

5. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

<p align="center">SUNDRY NOTICES AND REPORTS ON WELLS</p> <p><small>Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use APPLICATION FOR PERMIT -- for such proposals</small></p>		6. Lease Designation and Serial Number ML-48232
		7. Indian Allottee or Tribe Name NA
		8. Unit or Communitization Agreement NA
		9. Well Name and Number SITLA # 13-22
1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other (specify) <u>2</u>		10. API Well Number 43-007-30654
2. Name of Operator Marathon Oil Company		11. Field and Pool, or Wildcat DRUNKARD'S WASH
3. Address of Operator 1501 Stampede Ave., Cody, Wyoming 82414	4. Telephone Number 307-527-2211	
5. Location of Well Footage : 1672' FSL, 792' FWL County : CARBON QQ, Sec. T., R., M : NWSW 23-15S-9E State : UTAH		
12. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		

NOTICE OF INTENT
(Submit in Duplicate)

<input type="checkbox"/> Abandonment	<input type="checkbox"/> New Construction
<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing
<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Shoot or Acidize
<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Vent or Flare
<input type="checkbox"/> Multiple Completion	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Other _____	

Approximate Date Work Will Start _____

SUBSEQUENT REPORT
(Submit Original Form Only)

<input type="checkbox"/> Abandonment *	<input type="checkbox"/> New Construction
<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing
<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Shoot or Acidize
<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Vent or Flare
<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Other _____	SPUD

Date of Work Completion 05/14/2000

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

* Must be accompanied by a cement verification report.

13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

THE ABOVE NAMED WELL WAS SPUDDED ON 5/14/00 WITH ELENBURG RIG #15.
SURFACE CASING WAS PRE-SET TO 337'.

CC: WRF,RPM,DRILLING,DTI,T&C(HOU)

14. I hereby certify that the foregoing is true and correct.

Name & Signature R.P. Meabon Title Reg. Coord. Date 05/16/00

(State Use Only)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS		6. Lease Designation and Serial Number
Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use APPLICATION FOR PERMIT for such proposals.		ML-48232
1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other (specify) 2		7. Indian Allottee or Tribe Name NA
2. Name of Operator Marathon Oil Company		8. Unit or Communitization Agreement NA
3. Address of Operator 1501 Stampede Ave., Cody, Wyoming 82414		9. Well Name and Number SITLA # 13-22 13-22
4. Telephone Number 307-527-2211		10. API Well Number 43-007-30654
5. Location of Well Footage : 1672' FSL, 792' FWL OO Sec. T., R., M. : NWSW 23-15S-9E County : CARBON State : UTAH		11. Field and Pool, or Wildcat DRUNKARD'S WASH
12. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		

NOTICE OF INTENT
(Submit in Duplicate)

<input type="checkbox"/> Abandonment	<input type="checkbox"/> New Construction
<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing
<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Shoot or Acidize
<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Vent or Flare
<input type="checkbox"/> Multiple Completion	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Other	

Approximate Date Work Will Start _____

SUBSEQUENT REPORT
(Submit Original Form Only)

<input type="checkbox"/> Abandonment	<input type="checkbox"/> New Construction
<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing
<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Shoot or Acidize
<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Vent or Flare
<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Other	SPUD

Date of Work Completion 05/14/2000

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.
Must be accompanied by a cement verification report.

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THE ABOVE NAMED WELL WAS SPUDDED ON 5/14/00 WITH ELENBURG RIG #15.
SURFACE CASING WAS PRE-SET TO 337.

CC: WRF,RPM,DRILLING,DTI,T&C(HOU)

14. I hereby certify that the foregoing is true and correct.

Name & Signature	R.P. Meabon	Title	Reg. Coord.	Date	05/16/00
(State Use Only)					

(8/90)

See Instructions on Reverse Side

RECEIVED

JUL 03 2000

DIVISION OF
OIL, GAS AND MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

ENTITY ACTION FORM

Operator: Marathon Oil Company
Address: Attn: Michael L. Meyer
539 South Main St.
Findlay, OH 45840

Operator Account Number: N 3490

Phone Number: (419) 421-3217

Well 1

API Number	Well Number		QQ	Sec	Twp	Rng	County
43-007-30672	Sitla 34-23		SW SE	23	15S	9E	Carbon
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	99999	12786	5-12-00				
Comments: <i>000706 entity Added.</i>							

Well 2

API Number	Well Number		QQ	Sec	Twp	Rng	County
43-007-30661	Sitla 34-22		SW SE	22	15S	9E	Carbon
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	99999	12787	5-17-00				
Comments: <i>000706 entity Added.</i> Communization Agreement In Progress.							

Well 3

API Number	Well Number		QQ	Sec	Twp	Rng	County
43-007-30654	Sitla 13-22		NW SW	23	15S	9E	Carbon
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	99999	12788	5-14-00				
Comments: <i>000706 entity Added.</i>							

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

Michael L. Meyer
Name (Please Print)
Michael L. Meyer
Signature
Supervisor (RMS) 6-29-00
Title Date

(6/2000)

RECEIVED

JUL 03 2000

**DIVISION OF
OIL, GAS AND MINING**

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
 Use APPLICATION FOR PERMIT -- for such proposals

6. Lease Designation and Serial Number

ML-48232

7. Indian Allottee or Tribe Name

NA

8. Unit or Communitization Agreement

NA

9. Well Name and Number

SITLA # 13-22

10. API Well Number

43-007-30654

11. Field and Pool, or Wildcat

DRUNKARD'S WASH

1. Type of Well

☐ Oil Well☒ Gas Well☐ Other (specify) 2

2. Name of Operator

Marathon Oil Company

3. Address of Operator

1501 Stampede Ave., Cody, Wyoming 82414

4. Telephone Number

307-527-2211

5. Location of Well

Footage : 1672' FSL, 792' FWL

County : CARBON

QQ, Sec, T., R., M : NWSW 22-15S-9E

State : UTAH

12. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT

(Submit in Duplicate)

☐
☐
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☐
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☐
☐
☐

Abandonment

Casing Repair

Change of Plans

Conversion to Injection

Fracture Treat

Multiple Completion

Other _____

☐
☐
☐
☐
☐
☒
☐

New Construction

Pull or Alter Casing

Recompletion

Shoot or Acidize

Vent or Flare

Water Shut-Off

SUBSEQUENT REPORT

(Submit Original Form Only)

☐
☐
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☐
☐
☐

Abandonment *

Casing Repair

Change of Plans

Conversion to Injection

Fracture Treat

Other _____

☐
☐
☐
☐
☐
☐

New Construction

Pull or Alter Casing

Shoot or Acidize

Vent or Flare

Water Shut-Off

Date of Work Completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

* Must be accompanied by a cement verification report.

13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

THE ABOVE NAMED WELL WAS SPUDDED ON 5/14/00 AND MARATHON PLANS TO PROCEED WITH THE COMPLETION WORK BY AUGUST 1, 2000. DUE TO THE SENSITIVITY OF THE FERRON FORMATION DURING COMPLETION, AND TESTING PHASE AND TO ESTABLISH A STABILIZED WATER AND GAS RATE FOR THE PURPOSE OF ECONOMIC VIABILITY, MARATHON REQUESTS APPROVAL, IN ACCORDANCE WITH R649-3-20.3, APPROVAL TO VENT OR FLARE GAS FROM THE ABOVE NAMED WELL FOR A PERIOD OF 30 DAYS OR 50 MMCF, WHICHEVER IS LESS.

RECEIVED

JUL 25 2000

DIVISION OF
OIL, GAS AND MINING

CC: WRF,RPM,DTJ,T&C(HOU),MEW,DRUNKARD'S WASH OFFICE

14. I hereby certify that the foregoing is true and correct

Name & Signature R.P. Meabon

Title _____

Reg. Coord. _____

Date 07/20/00

(State Use Only)

COPY SENT TO OPERATOR

Date: 7-22-00
 Initials: RP/DTJ

The Utah Division of Oil, Gas and Mining
 Robert J. Krueger, PE, Petroleum Engineer

Date: 7-27-00

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS <small>Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use APPLICATION FOR PERMIT -- for such proposals</small>		6. Lease Designation and Serial Number ML-48232
		7. Indian Allottee or Tribe Name NA
		8. Unit or Communitization Agreement NA
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1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other (specify) <u>2</u>		10. API Well Number 43-007-30654
2. Name of Operator Marathon Oil Company		11. Field and Pool, or Wildcat DRUNKARD'S WASH
3. Address of Operator 1501 Stampede Ave., Cody, Wyoming 82414	4. Telephone Number 307-527-2211	
5. Location of Well Footage : 1672' FSL, 792' FWL County : CARBON QQ, Sec, T., R., M : NWSW 22-15S-9E State : UTAH		
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<input type="checkbox"/> Other _____	

Approximate Date Work Will Start _____

SUBSEQUENT REPORT
 (Submit Original Form Only)

<input type="checkbox"/> Abandonment *	<input type="checkbox"/> New Construction
<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing
<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Shoot or Acidize
<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Vent or Flare
<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Other <u>FIRST PRODUCTION</u>	

Date of Work Completion 08/20/2000

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

* Must be accompanied by a cement verification report.

13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

The above named well was placed on production to the sales line at 11:10am on 8/20/2000 at a rate of 263 MCFD.

RECEIVED

AUG 28 2000

DIVISION OF
OIL, GAS AND MINING

CC: WRF,RPM,DTJ,T&C(HOU),MEW

14. I hereby certify that the foregoing is true and correct.

Name & Signature R.P. Meabon  Title Reg. Coord. Date 08/23/00

(State Use Only)

**STATE OF UTAH
DIVISION OF OIL, GAS AND MINING**

5. LEASE DESIGNATION AND SERIAL NO.

ML-48232

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NA

7. UNIT AGREEMENT NAME

NA

8. FARM OR LEASE NAME

SITLA

9. WELL NO.

13-22

10. FIELD AND POOL, OR WILDCAT

DRUNKARD'S WASH

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

22-15S-9E

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL:

OIL WELL ☐GAS WELL ☒DRY ☐

Other _____

b. TYPE OF COMPLETION:

NEW WELL ☒WORK OVER ☐DEEPEN ☐PLUG BACK ☐DIFF. RESVR. ☐

Other _____

2. NAME OF OPERATOR

MARATHON OIL COMPANY

3. ADDRESS OF OPERATOR

1501 STAMPEDE AVENUE, CODY, WYOMING 82414

4. LOCATION OF WELL (Report locations clearly and in accordance with any State requirements.)*

At surface

1672' FSL, 792' FWL NWSW

At top prod. interval reported below

At total depth

SAME

14. API NO.

43-007-30654

DATE ISSUED

4/20/2000

12. COUNTY

CARBON

13. STATE

UTAH

15. DATE SPURRED

5/14/2000

16. DATE T.D. REACHED

5/17/2000

17. DATE COMPL.

8/20/00

(Ready to prod.)

or (Plug & Abd.)

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)

6088' GR 6100 RKB

19. ELEV. CASINGHEAD

NA

20. TOTAL DEPTH, MD & TVD

2902' KE_{MD}

2902' TVD

21. PLUG BACK T.D., MD & TVD

2836' KE_{MD}

2836' TVD

22. IF MULTIPLE COMPL.,

HOW MANY*

23. INTERVALS

ROTARY TOOLS

CABLE TOOLS

DRILLED BY

----->

O - TD

NA

24. PRODUCING INTERVAL(S), OF THIS COMPLETION---TOP, BOTTOM, NAME (MD AND TVD)

Ferron Coal at 2552' to 2634' gross

25. WAS DIRECTIONAL SURVEY MADE

NA

26. TYPE ELECTRIC AND OTHER LOGS RUN

AIT-GR, CNL-TLD-MLT-GR, CBL-CCL-GR

27. WAS WELL CORED? YES ☐NO ☒

(Submit analysis)

DRILL STEM TEST? YES ☐NO ☒

(See reverse side)

23. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24	337' KB	11"	140 sxs Prem. AG 300 - surface	0
5-1/2"	17	2902' KB	7-7/8"	Lead - 90 sxs 50:50 POZ & Tailed w/ 185 sxs Thixo	0

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
none					2-7/8"	2740' KB	none

31. PERFORATION RECORD (Interval, size and number)

INTERVAL	SIZE	NUMBER
2604'-09'; 2612'-20'; 2632'-34'	22.7 gm	63
2552'-54'; 2564'-74'; 2579'-81'	22.7 gm	59

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
2604' - 2634'	101,800# 16-30 sd in 36,878 gals 20# gel
2552' - 2581'	88,200# 16-30 sd in 34,097 gals 20# gel

33.* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump)					WELL STATUS (Producing or shut-in)	
8/20/2000		Pumping -- Progressive Cavity Pump					Producing	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL--BBL.	GAS--MCF.	WATER--BBL.		GAS-OIL RATIO
8/31/00	24		---->	0	265	143		na
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL-BBL.	GAS--MCF.		WATER--BBL.		OIL GRAVITY-API (CORR.)
45	45	---->	0	265		143		na

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Sold

TEST WITNESSED BY

Field Supervisor

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

SIGNED



TITLE

REGULATORY COORDINATOR

DATE

9/20/00

See Spaces for Additional Data on Reverse Side

This form should be completed in compliance with the Utah Oil and Gas Conservation General Rules. If not filed prior to this time, all logs, tests, and directional surveys as required by Utah Rules should be attached and submitted with this report.

ITEM 18: Indicate which elevation is used as reference for depth measurements given in other spaces on this form and on any attachments.

ITEMS: 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

ITEM 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

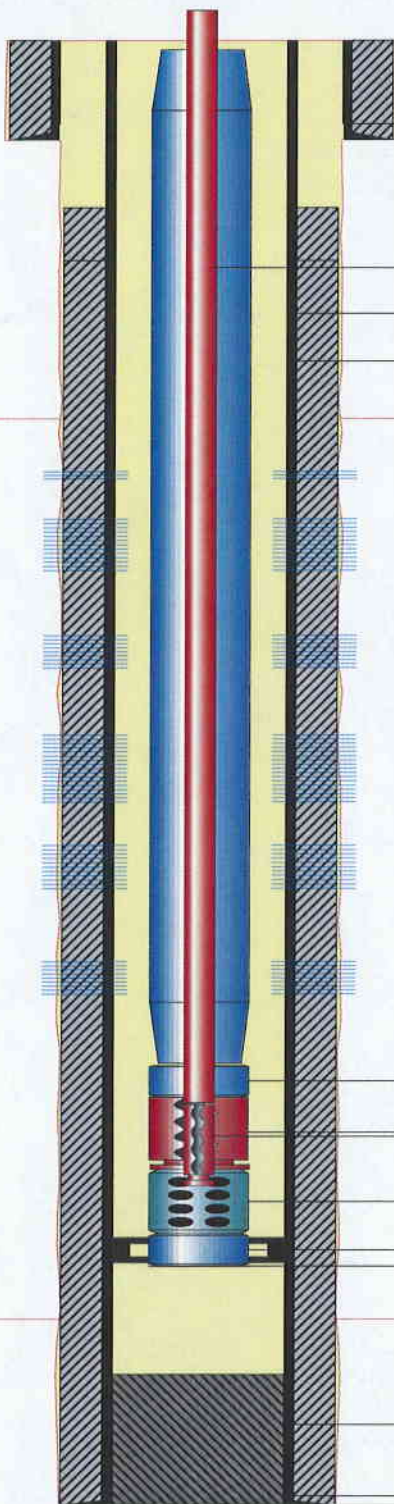
ITEM 33: Submit a separate completion report on this form for each interval to be separately produced (see instruction for items 22 and 24 above).

[illegible]

SITLA 13-22

API	43-007-30654	Field Name	DRUNKARDS WASH	Area		Operator	Marathon Oil Company	County	CARBON	State/Province	UTAH
KB Elev (ft)	6100.00	Ground Elev (ft)	6088.00	Casing Flange Elev (ft)		KB-Ground (ft)	12.00	KB-Casing Flange (ft)	12.00	Spud Date	5/3/00

Wellbore: 8/12/00 (KB-Grd: 12.0ft)		Schematic - Actual		Geology
ftKB (MD)				
7				
13				
335				
338				
636				
1184				
2490				
2503				
2530				Ferron, 2,529.0
2552				
2566				
2575				
2579				
2582				
2605				
2608				
2612				
2621				
2631				
2635				
2713				
2720				
2733				
2736				
2740				
2808				Tununk, 2,808.0
2835				
2861				
2900				
2904				



- Casing Jts, 8 5/8, 12.0, 336.0
- Guide Shoe, 8 5/8, 336.0, 337.0
- Guided Rods, 7/8, 8.0, 2711.5
- Tubing Jts - 86, 2 7/8, 2701.5, 13.0, 2,714.5
- Casing Jts, 5 1/2, 12.0, 2,490.1
- Marker Joint, 5 1/2, 2,490.1, 2,502.0
- Tubing Sub, 2 7/8, 4.0, 2,714.5, 2,718.5
- Stator, 2 7/8, 15.0, 2,718.5, 2,733.5
- Progressing Cavity Pump, 7/8, 2,719.5, 15.0
- Perforated Sub, 2 7/8, 4.0, 2,733.5, 2,737.5
- Torque Anchor, 2 7/8, 2.0, 2,737.5, 2,739.5
- Tapped Bull Plug, 2 7/8, 0.5, 2,739.5, 2,740.0
- Casing Jts, 5 1/2, 2,502.0, 2,860.9
- Float Collar, 5 1/2, 2,860.9, 2,861.0
- Casing Jts, 5 1/2, 2,861.0, 2,901.4
- Guide Shoe, 5 1/2, 2,901.4, 2,902.0

RECEIVED
SEP 25 2000
DIVISION OF
OIL, GAS AND MINING